< ------ Exercise 1 ----- >

HTML (index.html):

<!DOCTYPE html>

<html>

<head>

<title>Community Event</title>

<!-- Embedded CSS -->

<style>

body {

background-color: #f0f0f0;

}

</style>

<!-- External CSS -->

<link rel="stylesheet" href="styles.css">

</head>

<body>

<h1 style="color: red;">Welcome to Our Local Events!</h1> <!-- Inline style -->

<h2 id="mainHeader">Upcoming Events</h2>

<div class="eventCard">...</div>

</body>

</html>

External CSS (styles.css):

/\* Header styles \*/

#mainHeader {

font-size: 24px;

color: navy;

}

/\* Card styles \*/

.eventCard {

border: 1px solid #ccc;

padding: 20px;

margin: 10px;

background-color: white;

}

< ----- Exercise 2 ----- >

/\* Style for main CTA button \*/

.cta-button {

background-color: #007BFF;

color: white;

padding: 10px 20px;

border: none;

border-radius: 5px;

font-size: 16px;

}

< ----- Exercise 3 ----- >

/\* Reset margin and padding \*/

\* {

margin: 0;

padding: 0;

}

/\* Style all h2 elements \*/

h2 {

color: teal;

margin-bottom: 10px;

}

/\* ID selector \*/

#mainHeader {

font-size: 28px;

font-weight: bold;

}

/\* Class selector \*/

.eventCard {

background-color: #fff;

border: 1px solid #ccc;

margin: 10px;

padding: 15px;

}

/\* Grouping selector \*/

h3, p {

font-family: Arial, sans-serif;

color: #333;

}

< ----- Exercise 4 ------ >

/\* Text color using HEX \*/

h1 {

color: #004488;

}

/\* Background using RGBA \*/

body {

background-color: rgba(240, 240, 255, 0.9);

}

/\* Background image with fallback \*/

body {

background-color: #eee;

background-image: url('background.jpg');

background-size: cover;

}

/\* Gradient on section headers \*/

section h2 {

background: linear-gradient(to right, #6a11cb, #2575fc);

color: white;

padding: 10px;

}

< ----- exercise 5 ----- >

@import url('https://fonts.googleapis.com/css2?family=Roboto:wght@400;700&display=swap');

body {

font-family: 'Roboto', sans-serif;

line-height: 1.6;

}

p.description {

font-size: 1.1em;

text-align: justify;

letter-spacing: 0.5px;

text-transform: none;

}

< ----- Exercise 6 ----- >

nav a:link {

color: #0077cc;

}

nav a:visited {

color: purple;

}

nav a:hover {

text-decoration: underline;

}

nav a:active {

color: red;

}

nav ul {

list-style: none;

padding: 0;

}

nav li {

margin: 5px 0;

}

< ----- Exercise 7 ----- >

table {

width: 100%;

border-collapse: collapse;

}

th, td {

border: 1px solid #ccc;

padding: 10px;

text-align: center;

}

tr:nth-child(even) {

background-color: #f9f9f9;

}

< ----- Exercise 8 ----- >

.eventCard {

border: 1px solid #ddd;

margin: 20px;

padding: 15px;

}

/\* Outline example \*/

input:focus {

outline: 2px solid #007BFF;

}

/\* Visibility comparison \*/

.hidden {

visibility: hidden;

}

.not-displayed {

display: none;

}

< ----- Exercise 9 ----- >

.news-section {

column-count: 2;

column-gap: 30px;

column-rule: 1px solid gray;

}

< ----- Exercise 10 ----- >

/\* Base styles \*/

nav ul {

display: flex;

justify-content: space-around;

}

/\* Responsive styles \*/

@media (max-width: 768px) {

nav ul {

flex-direction: column;

align-items: center;

}

img {

width: 100%;

height: auto;

}

body {

font-size: 14px;

}

}

/\* Use flexible units \*/

.container {

width: 90%;

max-width: 1200px;

margin: auto;

}

< ----- Exercise 11 ----- >

/\* Nothing required in code; use DevTools to: \*/

/\* - Simulate screen sizes with device toolbar \*/

/\* - Inspect and live-edit styles \*/

/\* - Check Network tab for CSS file loading \*/